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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,450	09/09/2003	Richard Martin	14189US02	4742
23446 7590 MCANDREWS HE	01/24/2007 LD & MALLOY LT	EXAMINER		
MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661			GOETZE, SIMON A	
			ART UNIT	PAPER NUMBER
			2617	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	. DELIVERY MODE	
3 MONTHS 01/24/2007		01/24/2007	PAI	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

,	Application No.	Applicant(s)				
	10/658,450	MARTIN ET AL.				
Office Action Summary	Examiner	Art Unit				
,	Simon A. Goetze	2617.				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 09 Se	entember 2003.					
,	action is non-final.					
3) Since this application is in condition for allowan		secution as to the merits is				
closed in accordance with the practice under E						
·						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.	•				
Application Papers		**				
9) The specification is objected to by the Examine	· f.	a *				
10)⊠ The drawing(s) filed on <u>09 September 2003</u> is/a		ted to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti		•				
11) The oath or declaration is objected to by the Ex	=: '	•				
Priority under 35 U.S.C. § 119						
•						
a) ☐ All b) ☐ Some * c) ☐ None of:	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau		.a				
* See the attached detailed Office action for a list of	or the certified copies not receive	ru.				
Attachment(s)						
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						
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DETAILED ACTION

Claim Objections

- 1. Claim 12 is objected to because of the following informalities: Claim 12, a machine-readable storage, having stored thereon a computer program having at least one code section, claims dependency from claim 1, which is a method. For the purposes of this examination, claim 12 is understood as depending from claim 9. Appropriate correction is required.
- 2. Claim 19 is objected to because of the following informalities: The general structure of the preceding claims implies that claim 19's processor should be adapted to "return" at least one available port instead of "select", and has been read as such for the purposes of this examination.

 Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gai et al. (US Patent 6,032,194) in view of Eglin (US Patent Application Publication 2004/0047320).

Consider claim 1, Gai et al. discloses a method for access point aggregation and resiliency in a local area network (Abstract; Column 5, Lines 16-19 and 35-53), the method comprising:

determining at least one available switch port having a capability to handle a first local area network (Column 7, Lines 20-30; Column 10, Lines 49-67; Column 11, Lines 1-15), said first local area network having a first default switch port (Column 11, Lines 8-15 and 41-44);

provisioning said at least one available switch port to provide service to said first local area network (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27); and

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communicating information using at least one of said first default switch port and said at least one provisioned switch port (Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27 and 32-42).

However, Gai et al. discloses this network resiliency with port reconfiguration employed over a wired local area network, containing a number of hosts or end stations which are not described, connected to a switch, while failing to specifically disclose a hybrid wired/wireless local area network.

In related prior art, Eglin discloses a network which employs reconfiguration to groups of access points connected to a switch to implement connection resiliency. The network is arranged as a hybrid wired/wireless local area network by providing the wireless access points 106, 108, 110, etc. shown in Figure 1 (Page 2, Paragraphs 0036 and 0029; Page 3, Paragraphs 0030 and 0036).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to incorporate the teachings of Eglin with those of Gai et al. in order to employ connection protection in a wireless network which allows users to roam freely while maintaining a connection.

Consider claim 9, Gai et al. discloses a machine-readable storage, having stored thereon a computer program having at least one code section for access point aggregation and resiliency in a local area network (Abstract; Column 5, Lines 16-19 and 35-53), the at least one code section executable by a machine for causing the machine to perform the steps comprising:

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determining at least one available switch port having a capability to handle a first local area network (Column 7, Lines 20-30; Column 10, Lines 49-67; Column 11, Lines 1-15), said first local area network having a first default switch port (Column 11, Lines 8-15 and 41-44);

provisioning said at least one available switch port to provide service to said first local area network (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27), and

communicating information using at least one of said first default switch port and said at least one provisioned switch port (Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27 and 32-42).

However, Gai et al. discloses this network resiliency with port reconfiguration employed over a wired local area network, containing a number of hosts or end stations which are not described, connected to a switch, while failing to specifically disclose a hybrid wired/wireless local area network.

In related prior art, Eglin discloses a network which employs reconfiguration to groups of access points connected to a switch to implement connection resiliency. The network is arranged as a hybrid wired/wireless local area network by providing the wireless access points 106, 108, 110, etc. shown in Figure 1 (Page 2, Paragraphs 0036 and 0029; Page 3, Paragraphs 0030 and 0036).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to incorporate the teachings of Eglin with those of Gai et al. in order to employ connection protection in a wireless network which allows users to roam freely while maintaining a connection.

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Consider claim 17, Gai et al. discloses a system for access point aggregation and resiliency in a local area network (Abstract; Column 5, Lines 16-19 and 35-53), the system comprising:

at least one processor adapted to determine at least one available switch port having a capability to handle a first local area network (Column 7, Lines 20-30; Column 10, Lines 49-67; Column 11, Lines 1-15), said first local area network having a first default switch port (Column 11, Lines 8-15 and 41-44);

at least one processor adapted to provisioning said at least one available switch port to provide service to said first local area network (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27); and

at least one processor adapted to communicate information using at least one of said first default switch port and said at least one provisioned switch port (Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27 and 32-42).

However, Gai et al. discloses this network resiliency with port reconfiguration employed over a wired local area network, containing a number of hosts or end stations which are not described, connected to a switch, while failing to specifically disclose a hybrid wired/wireless local area network.

In related prior art, Eglin discloses a network which employs reconfiguration to groups of access points connected to a switch to implement connection resiliency. The network is arranged as a hybrid wired/wireless local area network by providing the wireless access points 106, 108, 110, etc. shown in Figure 1 (Page 2, Paragraphs 0036 and 0029; Page 3, Paragraphs 0030 and 0036).

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It would have been obvious to a person having ordinary skill in the art at the time the invention was made to incorporate the teachings of Eglin with those of Gai et al. in order to employ connection protection in a wireless network which allows users to roam freely while maintaining a connection.

Consider claim 2, as applied to claim 1 above, Gai et al. as modified by Eglin further discloses that the determining further comprises selecting said at least one available switch port from a reserved pool of available switch ports (Figure 3D – Column 11, Lines 41-52; Column 12, Lines 13-27 and 37-42 and 46-55).

Consider claim 3, as applied to claim 2 above, Gai et al. as modified by Eglin further discloses returning said selected at least one available switch port to said reserved pool of available switch ports upon abatement of a need to utilize said provisioned at least one available switch port (Figure 3E – Column 14, Lines 37-48).

Consider claim 4, as applied to claim 1 above, Gai et al. as modified by Eglin further discloses selecting said at least one available switch port from at least one of a first switching element and a second switching element, said first default switch port being associated with said first switching element (the different ports of the access switch are connected to different backbone switches, additionally some local area networks can communicate directly with more than one switch – Column 10, Lines 49-67; Column 11, Lines 1-7 and 8-24 and 41-51; Column 12, Lines 19-27).

Consider claim 5, as applied to claim 1 above, Gai et al. as modified by Eglin further discloses determining at least one a second available switch port having a capability to handle a

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second access point group, said second access point group having a second default switch port

(the same procedure is followed for each local area network connected to the switch for

determining a transmission port - Column 7, Lines 20-30; Column 10, Lines 49-67; Column 11,

Lines 1-15).

Consider claim 6, as applied to claim 5 above, Gai et al. as modified by Eglin further discloses provisioning at least a third available switch port to provide service to said second access point group (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27).

Consider claim 7, as applied to claim 6 above, Gai et al. as modified by Eglin further discloses switching between any two of said at least one available switch port, said at least a second available switch port and said at least a third available switch port (Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27 and 32-42).

Consider claim 8, as applied to claim 1 above, Gai et al. as modified by Eglin further discloses switching between said default switch port and said at least one available switch port in a time period less than on the order of a few milliseconds from at least one of a detectable link failure and a configuration change (change occurs at or about the same instant, and the connection is tested every few milliseconds – Column 12, Lines 4-12; Column 14, Lines 40-51).

Consider claim 10, as applied to claim 9 above, Gai et al. as modified by Eglin further discloses code for selecting said at least one available switch port from a reserved pool of available switch ports (Figure 3D – Column 11, Lines 41-52; Column 12, Lines 13-27 and 37-42 and 46-55).

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Consider claim 11, as applied to claim 10 above, Gai et al. as modified by Eglin further discloses code for returning said selected at least one available switch port to said reserved pool of available switch ports upon abatement of a need to utilize said provisioned at least one available switch port (Figure 3E – Column 14, Lines 37-48).

Consider claim 12, as applied to claim 9 above, Gai et al. as modified by Eglin further discloses code for selecting said at least one available switch port from at least one of a first switching element and a second switching element, said first default switch port being associated with said first switching element (the different ports of the access switch are connected to different backbone switches, additionally some local area networks can communicate directly with more than one switch – Column 10, Lines 49-67; Column 11, Lines 1-7 and 8-24 and 41-51; Column 12, Lines 19-27).

Consider claim 13, as applied to claim 9 above, Gai et al. as modified by Eglin further discloses code for determining at least one a second available switch port having a capability to handle a second access point group, said second access point group having a second default switch port (the same procedure is followed for each local area network connected to the switch for determining a transmission port - Column 7, Lines 20-30; Column 10, Lines 49-67; Column 11, Lines 1-15).

Consider claim 14, as applied to claim 13 above, Gai et al. as modified by Eglin further discloses code for provisioning at least a third available switch port to provide service to said second access point group (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27).

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Consider claim 15, as applied to claim 14 above, Gai et al. as modified by Eglin further discloses code for switching between any two of said at least one available switch port, said at least a second available switch port and said at least a third available switch port (Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27 and 32-42).

Consider claim 16, as applied to claim 9 above, Gai et al. as modified by Eglin further discloses code for switching between said default switch port and said at least one available switch port in a time period less than on the order of a few milliseconds from at least one of a detectable link failure and a configuration change (change occurs at or about the same instant, and the connection is tested every few milliseconds – Column 12, Lines 4-12; Column 14, Lines 40-51).

Consider claim 18, as applied to claim 17 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to select said at least one available switch port from a reserved pool of available switch ports (Figure 3D – Column 11, Lines 41-52; Column 12, Lines 13-27 and 37-42 and 46-55).

Consider **claim 19**, as applied to claim 18 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to return said selected at least one available switch port to said reserved pool of available switch ports upon abatement of a need to utilize said provisioned at least one available switch port (Figure 3E – Column 14, Lines 37-48).

Consider claim 20, as applied to claim 17 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to select said at least one available switch port from at least one of a first switching element and a second switching element, said first default switch port being associated with said first switching element (the different ports of the access

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switch are connected to different backbone switches, additionally some local area networks can communicate directly with more than one switch – Column 10, Lines 49-67; Column 11, Lines 1-7 and 8-24 and 41-51; Column 12, Lines 19-27).

Consider claim 21, as applied to claim 17 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to determine least one a second available switch port having a capability to handle a second access point group, said second access point group having a second default switch port (the same procedure is followed for each local area network connected to the switch for determining a transmission port - Column 7, Lines 20-30; Column 10, Lines 49-67; Column 11, Lines 1-15).

Consider claim 22, as applied to claim 21 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to provision at least a third available switch port to provide service to said second access point group (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27).

Consider claim 23, as applied to claim 22 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to switch between any two of said at least one available switch port, said at least a second available switch port and said at least a third available switch port (Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27 and 32-42).

Consider claim 24, as applied to claim 17 above, Gai et al. as modified by Eglin further discloses that said at least one processor adapted to switch between said default switch port and said at least one available switch port in a time period less than on the order of a few milliseconds from at least one of a detectable link failure and a configuration change (change

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occurs at or about the same instant, and the connection is tested every few milliseconds – Column 12, Lines 4-12; Column 14, Lines 40-51).

Consider claim 25, as applied to claim 17 above, Gai et al. as modified by Elgin further discloses that said at least one processor is at least one of a switch processor, a bandwidth management controller, a quality of service controller, a load balancing controller, a session controller, and a network management controller (Column 10, Lines 1-12; Column 11, Lines 8-24 and 41-51; Column 12, Lines 19-27).

Conclusion

7. The prior art made of record and not relied upon and is considered pertinent to applicant's disclosure is listed below.

US 20040008682 A1	Flexible scheduling of network devices within redundant aggregate configurations	Miriyala, Prasad
US 20030016624 A1	Path recovery on failure in load balancing switch protocols	Bare, Ballard C.
US 6006090 A	Providing roaming capability for mobile computers in a standard network	Coleman; Arthur Bernard et al.
US 20030048746 A1	Metropolitan area local access service system	Guess, Michael et al.
US 6965775 B2	Service-oriented protection scheme for a radio access network	Antoniou; Zoe et al.
US 6308282 B1	Apparatus and methods for providing fault tolerance of networks and network interface cards	Huang; Jiandong et al.

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8. Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Simon A. Goetze whose telephone number is (571) 270-1113. The Examiner can normally be reached on Monday-Thursday from 7:30am to 5:00pm and Friday from 7:30am to 4:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Nick Corsaro can be reached on (571) 272-7876. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-

2600.

Simon A. Goetze

S.A.G./sag

January 22, 2007

EDAN ORGAD
PRIMARY PATENT EXAMINER

All Order